



























































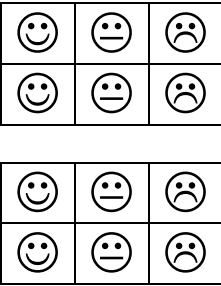
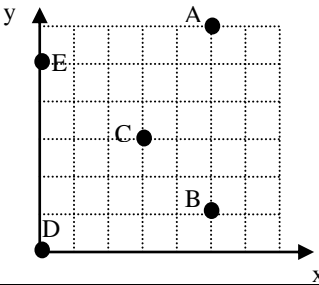
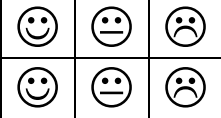
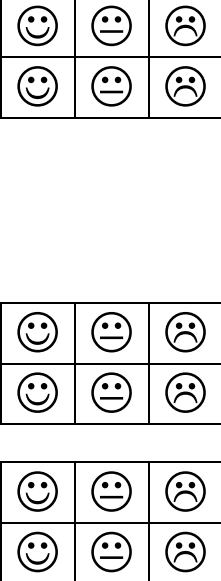
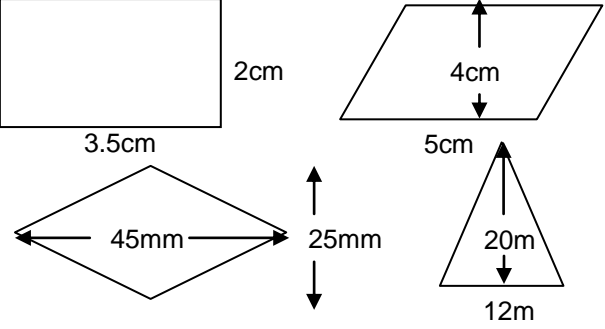
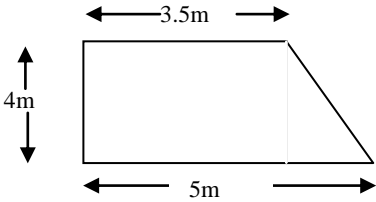
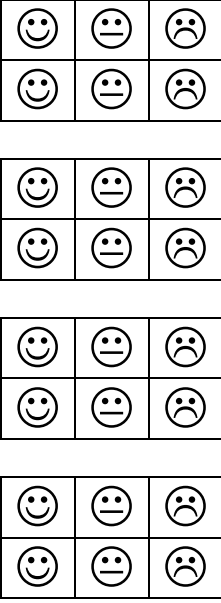


# S1 Block 3

Topic	I can?	Example of Evidence																		
<b>FRACTIONS, PERCENTAGES AND DECIMAL FRACTIONS</b>																				
<b>A:</b> I can solve problems involving decimal fractions	     	<p>A bill comes to £34.50. If 3 people split the bill equally how much does each pay?</p>																		
<b>B:</b> I can solve problems involving fractions	     	<p>Calculate a) <math>\frac{1}{8}</math> of 24kg    b) <math>\frac{2}{3}</math> of £72</p>																		
<b>C:</b> I can solve problems involving percentages	     	<p>Find a) 20% of £50    b) 6% of 110mm</p>																		
<b>D:</b> I can use answers to problems to make comparisons and informed choices for real life situations	     	<p>Two shops have a sale. One offers 20% discount, the other <math>\frac{1}{4}</math> off the price. Which offers the best deal?</p>																		
<b>E:</b> I can convert between fractions, percentages and decimal fractions	     	<table border="1"> <thead> <tr> <th>Percentage</th><th>Decimal fraction</th><th>Fraction</th></tr> </thead> <tbody> <tr> <td>50%</td><td></td><td></td></tr> <tr> <td></td><td>0.25</td><td></td></tr> <tr> <td></td><td></td><td><math>\frac{3}{4}</math></td></tr> <tr> <td>20%</td><td></td><td></td></tr> <tr> <td></td><td></td><td><math>\frac{2}{3}</math></td></tr> </tbody> </table>	Percentage	Decimal fraction	Fraction	50%				0.25				$\frac{3}{4}$	20%					$\frac{2}{3}$
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50%																				
	0.25																			
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20%																				
		$\frac{2}{3}$																		
<b>F:</b> I can find equivalent fractions and simplify fractions	     	$\frac{5}{10} = \frac{10}{10} = \frac{50}{10}$ $\frac{7}{35} =$ $\frac{21}{28} =$																		
<b>G:</b> I can add and subtract fractions	     	$\frac{3}{4} + \frac{2}{3} =$ $4\frac{2}{3} - 1\frac{2}{5} =$																		
<b>H:</b> I can write a whole number as an equivalent fraction	     	$3 = \frac{6}{2} = \frac{6}{6}$ $5 = \frac{10}{2} = \frac{20}{2}$																		
<b>I:</b> I can write a mixed number as an improper fraction	     	$4\frac{1}{4} = \frac{17}{4}$ $5\frac{3}{8} = \frac{43}{8}$																		
<b>J:</b> I can write an improper fraction as a mixed number	     	$\frac{13}{5} = 2\frac{3}{5}$ $\frac{27}{2} = 13\frac{1}{2}$																		

<p><b>COORDINATES</b></p> <p><b>K:</b> I can plot points on a coordinate grid (labelled correctly) <i>Use all 4 quadrants</i></p> <p><b>L:</b> I can locate points on a coordinate grid</p>		<p>Draw a coordinate grid and plot the points A(2,6), B(0,3), C(-1,5), D(-4,-2)</p>  <p>A(     ,     ) B(     ,     )</p>
<p><b>ALGEBRA</b></p> <p><b>M:</b> I can substitute values into an expression and evaluate</p>		<p>If <math>a = 2</math>, <math>b = 4</math> and <math>c = 5</math>, evaluate</p> <p>(i) <math>3a</math>                      (ii) <math>b + 2c</math>                      (iii) <math>ac</math></p> <p>(iv) <math>3a + 5b - 2c</math></p>
<p><b>AREA</b></p> <p><b>N:</b> I can use a formula to calculate the area of a shape to solve a problem (choosing appropriate units)</p> <ul style="list-style-type: none"> <li>Rectangle</li> <li>Triangle</li> <li>Rhombus/kite</li> <li>Parallelogram</li> </ul> <p><b>O:</b> I can break up compound 2D shapes to form simple 2D shapes</p> <p><b>P:</b> I can find the areas of compound 2D shapes using areas of simple 2D shapes</p>		<p>Calculate the areas of these shapes:-</p>  <p>What area of carpet would be needed for this room?</p> 
<p><b>TIME</b></p> <p><b>Q:</b> I can use 12 hour time</p> <p><b>R:</b> I can use 24 hour time</p> <p><b>S:</b> I can write time periods in hours and minutes or as a mixed number of hours e.g. <math>1\frac{1}{2}</math> h</p> <p><b>T:</b> I can calculate the duration between two times</p> <p><b>U:</b> I can use the formulae to calculate distance, speed and time:-</p> <ul style="list-style-type: none"> <li>Distance = Speed <math>\times</math> time</li> <li>Time = Distance <math>\div</math> Speed</li> <li>Speed = Distance <math>\div</math> Time</li> </ul>		<p>Write in 12 hour time: 0215 2045</p> <p>Write in 24 hour time: 3.25pm 7.50am</p> <p>2 hours 45 minutes = _____ hours 4.5 hours = _____ hours and _____ mins</p> <p>A film starts at 7.45pm and finishes at 10.35pm. How long does it last?</p> <p>How far would you travel in 3 hours 30 mins at 67mph?</p> <p>How long does it take to travel 189 kilometres at 36 mph?</p> <p>A train travels 145km in 2 hours 45 mins. What is the average speed?</p>